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PHOTOGRAPHIC INTERPRETATION REPORT

April 1965

# DIMENSIONS OF SELECTED SOVIET MISSILES/COMPONENTS AND SELECTED ICBM SILO APERTURES



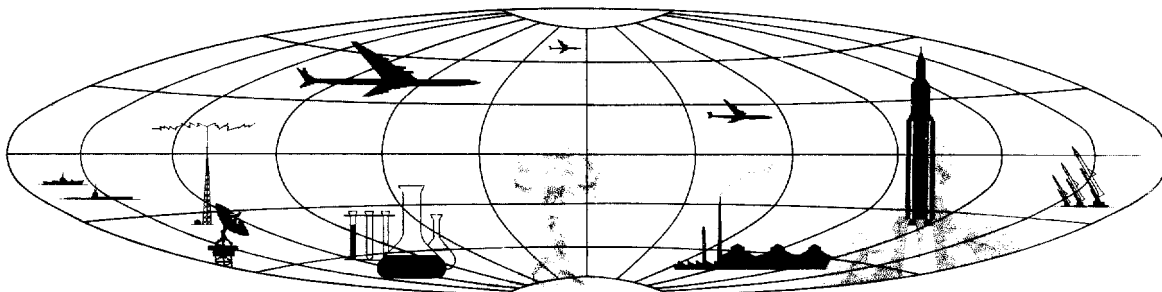
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## DIMENSIONS OF SELECTED SOVIET MISSILES/COMPONENTS AND SELECTED ICBM SILO APERTURES

Table 1 of this report presents dimensions of selected missiles/components observed at launch complexes at the Tyuratam Missile Test Center (TTMTC). The dimensions of silo aperture at selected Type IIIB, IIIC, and IIID ICBM launch sites at the TTMTC and at the deployed Aleysk, Olovyannaya, and Tatishchevo complexes are given in Table 2. All entries in Tables 1 and 2 were identified on [ ] photography of [ ]

The reliability of the dimensions varies with each item measured and is subject necessarily to the limitations of the particular [ ] photography utilized. Reliability is affected also by the technique(s) used to derive the measurements. Where 2 entries are shown for a single item in the accompanying tables, either 2 techniques or 2 different frames of photography -- or a combination of both -- were used.

The linear dimensions of all erected missiles given in Table 1 include the height of the launch stand, since the precise base of the missile or the stand could not be determined. An attempt was made to measure erected missiles by both the shadow and image-obliquity methods. The linear dimensions of missiles in the horizontal position are more accurate, in that a launch stand is not involved. However, in some instances, the diameter given for a horizontal missile may vary slightly from the actual dimension due to the obscuring of a portion of the cylinder by the shadow of the sun.

The diameters of silo apertures given in Table 2 are subject to the inaccuracies inherent in measuring circular objects on "tilted" or "skewed" photography. The dimensions entered for Type IIIB and IIIC silos are inside diameters; both inside and outside diameters are listed for Type IIID silos. In a few instances, particu-

larly with regard to the Type IIIC silos, it is difficult during some phases of construction to determine if the measurement derived is that of the silo or the silo coring. The limited number of silos measured for purposes of this report is not sufficient to provide a significant conclusion as to the exact inside diameter of the respective silos. However, these measurements do indicate the relative proportions of the various types of silos. The dimensions of Type III launch silos given in published NPIC reports are considered still valid and usable. Dimensions of a completed Type IIIC or IIID silo have not been determined as yet.

Table 1. Dimensions of Selected Soviet Missiles/Components, TTMTC

Location*	
Launch Complex A Pad A1 (1)	
Launch Complex C Pad C1 (3) Pad C3 Ready Bldg Area	
Launch Complex E Ready Bldg Area, Pad E2 Pad E3	
Launch Complex G Pad G1 (7) Pad G4 (11)	
Launch Complex H (8)	

\*TDI site designators are indicated in parentheses.

\*\*Missile/component in vertical position; others horizontal.

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NPIC. R-331/64, *Construction of Soviet Type IIIA ICBM Launch Sites*, May 64 (TOP SECRET

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